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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
09/449,660	11/30/1999	JAMES WICHELMAN	10001186	6543			
22878	7590	07/06/2005	EXAMINER				
AGILENT TECHNOLOGIES, INC. INTELLECTUAL PROPERTY ADMINISTRATION, LEGAL DEPT. P.O. BOX 7599 M/S DL429 LOVELAND, CO 80537-0599				RYMAN, DANIEL J			
ART UNIT		PAPER NUMBER					
2665							
DATE MAILED: 07/06/2005							

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/449,660	WICHELMAN ET AL.	
	Examiner	Art Unit	
	Daniel J. Ryman	2665	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 09 June 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 21-40 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 21-40 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Response to Arguments

1. Examiner acknowledges Applicant's filing of an RCE on 6/9/2005.
2. Applicant's arguments with respect to claims 21-40 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 30 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 30 contains the limitation "percent availability is related to the duration of bursts exceeding a specified level during a total testing time." However, it is not clear from this limitation to which measurement (i.e. power, time, etc.) the "specified level" is related. Therefore, this limitation is open to a variety of interpretations including: "an occupied channel for the purposes of percent availability is related to the duration of a burst on the channel exceeding a specified level of time during the total testing time" and "percent availability is related to the number of channels having bursts exceeding a specified power level during a total testing time."

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 21-29, 31-34, and 36-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zimmerman (USPN 5,577,067) in view of Dev et al. (USPN 5,295,244).
7. Regarding claims 21, 28, and 38, Zimmerman discloses a method and system for monitoring a communication system (CATV system) having at least one group of nodes (branch parts of a tree), each node having a plurality of channels (col. 1, lines 10-26), the method comprising the steps of and the system comprising means for: acquiring data obtained during a channel test (i.e. carrier-to-noise ratio test) and a spectrum scan test (i.e. display of full spectrum of channels) (col. 1, line 58-col. 2, line 10 and col. 5, lines 1-9), the channel test configured to obtain channel parameters related to the channels of each node of a first group of nodes (col. 1, line 58-col. 2, line 10 and col. 5, lines 1-9), the spectrum scan test configured to obtain node parameters of each node of the first group (col. 5, lines 1-9 and col. 5, lines 27-48); analyzing the acquired data to obtain a plurality of channel test results (col. 1, line 58-col. 2, line 10; col. 5, lines 1-9; and col. 6, lines 57-62) where the channel to noise ratio results are archived in a central location, a plurality of node test results (col. 5, lines 1-9; col. 5, lines 27-48; and col. 6, lines 57-62) where the spectrum test results for a node are archived in a central location; and controlling a display screen on a display device to display a test result selected from the group consisting of the channel test results and node test results (col. 5, lines 3-9 and col. 6, lines 57-62) where the test results are retrieved from a central location based upon the address of a node.

Zimmerman does not expressly disclose analyzing the acquired data to obtain a plurality of group test results and displaying the group test results. Dev teaches, in a network management system using testing and monitoring, analyzing acquired data to obtain a plurality of group test

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results (network level test results) and displaying the group test results (col. 2, lines 20-27; col. 2, lines 46-59; and col. 12, line 60-col. 13, line 46) in order to "provide a network management system which can systemize the knowledge of the networking expert such that common problems can be detected, isolated and repaired, either automatically or with the involvement of less skilled personnel" (col. 1, lines 64-68).

8. Regarding claims 22 and 29, Zimmerman in view of Dev discloses that the channel test results comprise at least one test result selected from the group consisting of: a channel carrier-to-noise graph indicating a magnitude of a channel carrier-to-noise ratio of the channels associated with one of the nodes with respect to time (Zimmerman: col. 1, line 58-col. 2, line 10 and col. 5, lines 1-9); a channel percent available graph indicating a percent availability of the channels associated with one of the nodes with respect to time; a channel average noise power graph indicating a magnitude of a channel noise power of the channels associated with one of the nodes with respect to time; a channel power graph indicating a magnitude of a channel noise power of one of the channels associated with one of the nodes with respect to time; and a channel burst counter graph indicating a number of channel bursts occurring in the channels associated with one of the nodes with respect to a burst duration length.

9. Regarding claims 23 and 31, Zimmerman in view of Dev discloses that the node test results comprise at least one test result selected from the group consisting of: a channel plan graph indicating a desired frequency spectrum of a respective one of the nodes, the desired frequency spectrum including at least one frequency band associated with at least one of the channels that are associated with the respective node (Zimmerman: col. 5, lines 27-48); a total node power graph indicating an amount of power associated with one of the nodes with respect

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to time; and a node spectrum scan indicating the frequency spectrum of one of the nodes with respect to time (Zimmerman: col. 5, lines 1-9).

10. Regarding claims 24 and 32, Zimmerman in view of Dev discloses that the group test results comprise at least one test result selected from the group consisting of: a node information table listing a number of the nodes associated with said first group (Dev: col. 2, lines 20-27; col. 2, lines 46-59; and col. 12, line 60-col. 13, line 46); a group total node power graph indicating a power range for a number of the nodes associated with said first group; and an average percent availability graph indicating at least a low percent availability and a high percent availability for a number of nodes associated with said first group, whereby percent availability is related to the duration of bursts with respect to a total testing time.

11. Regarding claim 25, Zimmerman in view of Dev discloses that the data analyzer comprises control process software and graphical user interface (GUI) software (Dev: col. 2, lines 20-27; col. 2, lines 46-59; and col. 12, line 60-col. 13, line 46).

12. Regarding claim 26, Zimmerman in view of Dev discloses that the GUI software comprises logic to enable a user to select a test result from said group consisting of the channel test results, node test results, and group test results (Dev: col. 2, lines 20-27; col. 2, lines 46-59; and col. 12, line 60-col. 13, line 46).

13. Regarding claim 27, Zimmerman in view of Dev discloses that the channel parameters include at least one parameter selected from the group consisting of a start frequency, a stop frequency, a center frequency, a channel bandwidth, an average carrier power, and an average noise power (Zimmerman: col. 5, lines 1-9) where a graph of amplitude vs. frequency will inherently have a start frequency and a stop frequency.

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14. Regarding claim 33, Zimmerman in view of Dev discloses that the channel parameters comprise at least one parameter selected from the group consisting of average noise power, carrier-to-noise ratio, low-end frequency, high-end frequency, channel frequency, channel bandwidth, high power threshold, low power threshold, and average carrier power (Zimmerman: col. 1, line 58-col. 2, line 10 and col. 5, lines 1-9) where Zimmerman discloses carrier-to-noise ratio.

15. Regarding claim 34, Zimmerman in view of Dev discloses that the node parameters comprise at least one parameter selected from the group consisting of: a spectrum scan measurement indicating a power amplitude versus frequency; an average power measurement indicating an integrated power amplitude over the bandwidth of a selected node; a channel power measurement indicating an integrated operating power of a communication device over the bandwidth of the communication device; and a burst counter measurement indicating the number and duration of bursts above a specified power level (Zimmerman: col. 5, lines 1-9) where Zimmerman discloses a spectrum scan measurement indicating a amplitude versus frequency.

16. Regarding claim 36, Zimmerman in view of Dev discloses defining a channel plan corresponding to a start frequency, a stop frequency, a center frequency, and a list of channels (Zimmerman: col. 5, lines 1-9 and col. 5, lines 27-48).

17. Regarding claim 37, Zimmerman in view of Dev discloses that analyzing the acquired data further comprises: comparing expected operational levels with actual measured levels (Zimmerman: col. 5, lines 1-9 and col. 5, lines 27-48).

18. Regarding claim 39, Zimmerman in view of Dev discloses logic configured to enable a user to select the test result from the group consisting of the channel test results, node test results,

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and group test results (Dev: col. 2, lines 20-27; col. 2, lines 46-59; and col. 12, line 60-col. 13, line 46).

19. Regarding claim 40, Zimmerman in view of Dev discloses that the group test results comprise at least one test result selected from the group consisting of: a node information table listing a number of the nodes associated with said first group (Dev: col. 2, lines 20-27; col. 2, lines 46-59; and col. 12, line 60-col. 13, line 46); a group total node power graph indicating a power range for a number of the nodes associated with said first group; and an average percent availability graph indicating at least a low percent availability and a high percent availability for a number of nodes associated with said first group, whereby percent availability is related to a sum of burst durations with respect to a total testing time; the node test results comprise at least one test result selected from the group consisting of: a channel plan graph indicating a desired frequency spectrum of a respective one of the nodes, the desired frequency spectrum including at least one frequency band associated with at least one of the channels that are associated with the respective node (Zimmerman: col. 5, lines 27-48); a total node power graph indicating an amount of power associated with one of the nodes with respect to time; and a node spectrum scan indicating the frequency spectrum of one of the nodes with respect to time (Zimmerman: col. 5, lines 1-9); and the channel test results comprise at least one test result selected from the group consisting of: channel carrier-to-noise graph indicating a magnitude of a channel carrier-to-noise ratio of the channels associated with one of the nodes with respect to time (Zimmerman: col. 1, line 58-col. 2, line 10 and col. 5, lines 1-9); a channel percent available graph indicating a percent availability of the channels associated with one of the nodes with respect to time; a channel average noise power graph indicating a magnitude of a channel noise power of the

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channels associated with one of the nodes with respect to time; a channel power graph indicating a magnitude of a channel noise power of one of the channels associated with one of the nodes with respect to time; and a channel burst counter graph indicating a number of channel bursts occurring in the channels associated with one of the nodes with respect to a burst duration length.

20. Claim 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zimmerman (USPN 5,577,067) in view of Dev et al. (USPN 5,295,244) as applied to claims 28 and 29 above, and further in view of Applicant's admitted prior art.

21. Regarding claim 35, Zimmerman in view of Dev does not expressly disclose that acquiring data further comprises: setting high and low alarm limits; however, Applicant admits as prior art that it is well known in the art to set high and low alarm limits (page 2, lines 11-12 and page 2, lines 23-31) where it is implicit that this is done to ensure that the system is operating properly. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have acquiring data further comprise: setting high and low alarm limits in order to ensure that the system is operating properly.

Conclusion

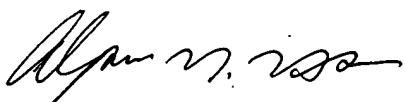
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Ryman whose telephone number is (571)272-3152. The examiner can normally be reached on Mon.-Fri. 7:00-4:30 with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571)272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DJR
Daniel J. Ryman
Examiner
Art Unit 2665



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